

State Coastal Programs and National Estuarine Research Reserves (NERRs)

Title	Agency	Description	Web site	Keywords	State
Developing Coastal Community Awareness	NOAA Coastal Services Center	The goals of this project are to develop a community-based coastal awareness project in partnership with a village and to provide guidance and technical assistance for managing its coastal resources. The project provides information technology about land-use practices that threaten the environment and strategies for protection against them so that American Samoan communities can make informed decisions. The project is implemented through workshops, technical assistance, training, provision of equipment and materials, and assistance in implementing community-based coastal projects.	www.csc.noaa.gov/stateproj/	land use planning, training, workshop, community	AS
Population Growth	American Samoa Coastal Program	In May 2002, a task force released its report, which included recommendations to modernize the immigration system, reduce immigration rates, reduce birthrates, and better manage resources while supporting the local Samoan culture. An action plan identifies specific steps needed to meet these goals. The report also called for a population ceiling.	www.csc.noaa.gov/magazine/2003/04/samoa.html	population growth	AS
Compact for a Sustainable Bay Area	NOAA Coastal Services Center	The compact identifies key regional challenges and recommends a package of strategic commitments to meet those challenges and put the Bay area on a more sustainable path. The goal of the compact is to serve as a framework for action that will guide, but not prescribe, both regional and local decision making and motivate government, employers, civic organizations, and individuals in cooperative efforts that will lead to a more sustainable region.	www.bayareaalliance.org/draftcompact.html	regional planning	CA
Elkhorn Slough at the Crossroads	Elkhorn Slough Foundation & Elkhorn Slough National Estuarine Research Reserve	Publication that looks at natural resources and conservation strategies for the Elkhorn Slough watershed.	www.elkhornslough.org/crossroads/EScrossroads_text.pdf	preservation, land planning	CA
Local Coastal Programs	California Coastal Commission	Local Coastal Programs (LCPs) are basic planning tools used by local governments, in partnership with the California Coastal Commission, to guide development in the coastal zone. LCPs contain the ground rules for future development and protection of coastal resources in the 74 coastal cities and counties. The LCPs specify appropriate location, type, and scale of new or changed uses of land and water. Each LCP includes a land use plan and measures to implement the plan (such as zoning ordinances).	www.coastal.ca.gov/web/lcps.html	local planning tools, water, future, zoning, ordinance	CA
Public Access to Coastal Environments (PACE)	NOAA Fellow	This project involved the development of a public access database and Web site through the development of a comprehensive geographic information system (GIS) database classifying shoreline property ownership. The database is used to help the state organize, analyze, and share information related to public access to coastal environments in Connecticut.	www.csc.noaa.gov/cms/fellows/02_fellows.html	public access, GIS	CT
Coastal Habitat Decision Tool	NOAA Fellow	The University of Connecticut was awarded funding to develop an integrated educational and technical support system for local protection of high-priority Connecticut coastal habitats.	www.csc.noaa.gov/text/state.html	land use planning, protection, conservation	CT

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Urban Sites Remedial Action Program	Connecticut Department of Environmental Protection	Urban Sites is designed to return contaminated, underutilized sites in urban areas back to productive use. The Department of Environmental Protection, in partnership with the Connecticut Department of Economic Development, has spent tens of millions of dollars investigating and overseeing cleanups of contaminated sites in the state's urban centers. As a result, more than 10,000 jobs have been created.	www.dep.state.ct.us/pao/PERDfact/urban.htm	brownfields, contaminated, economy, policy, developers	CT
Connecticut Coastal Management Manual	Connecticut Department of Environmental Protection	The Coastal Management Manual was developed as a tool for coastal land use agents, boards, and commissions, as well as developers, consultants, and individuals, to use in understanding how to apply the standards and policies of the Connecticut Coastal Management Act. The manual replaces the Coastal Policies and Use Guidelines (a.k.a. Planning Report #30) which was published by the Department of Environmental Protection's Coastal Area Management Program in December 1979.	http://dep.state.ct.us/olisp/manual/manual.htm	toolkit, education, site planning	CT
Growing Smarter In Hartford	Connecticut Department of Environmental Protection	The Connecticut Department of Environmental Protection is addressing sprawl issues in Hartford through the Hartford Neighborhood Environmental Project (HNEP). A grant from the U.S. Environmental Protection Agency provides funding that is enabling HNEP to partner with Hartford 2000, a coalition of neighborhood revitalization zones, and develop model training programs in smart growth for urban environmental justice communities.	www.dep.state.ct.us/wst/p2/p2View/smarthtd.htm	sprawl, grant, environmental justice	CT
Open Space and Watershed Land Acquisition Grant Program	Connecticut Department of Environmental Protection	Grants provide financial assistance to municipalities and nonprofit land conservation organizations to acquire land for open space, and to water companies to acquire land to be classified as Class I or Class II water supply property. The Department of Environmental Protection (DEP) will utilize a project selection process to evaluate proposals objectively. Land identified for acquisition will be evaluated by a review team consisting of personnel from the various resource management divisions of the DEP.	www.dep.state.ct.us/rec/open-sp31.htm	water, supply, acquisition, land	CT
Coastal Management Outreach Tool	Department of Environmental Protection	The primary objective of this project was to establish a coastal management outreach, education, and training program in Connecticut's Department of Environmental Protection (DEP). Funding was used to develop training materials and provide workshops for Connecticut's 36 coastal municipalities' planning and zoning authorities and staffs. Training materials addressed such topics as coastal hazard mitigation, protective buffers and setbacks from sensitive resources, the need to increase public access to marine and tidal waters, and the reduction and control of pollution from various nonpoint sources. This project was funded by a special training grant from the NOAA Coastal Services Center.	www.csc.noaa.gov/text/state.html	training, workshop, grant	CT
Brownfield Redevelopment	NOAA Fellow	The purpose of this project was to increase the rate and acreage of brownfield restoration and reuse in Delaware's coastal communities to help reduce development pressures and associated coastal impacts in undeveloped areas.	www.csc.noaa.gov/cms/fellow/03_stateprojects.html#de	brownfield, restoration	DE

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Development of a Brownfields Restoration and Reuse Compendium for Coastal Communities	NOAA Fellow	The purpose of this project was to perform a preliminary information assessment and development of an implementation plan, as well as inventory brownfield sites in coastal area.	www.csc.noaa.gov/text/state.html	brownfield redevelopment, dredging issues	DE
Ten Thousand Islands Outparcel Acquisition Project	Florida Rookery Bay National Estuarine Research Reserve (RBNERR)	The Ten Thousand Islands (TTI) form a unique coastal system comprised of barrier and back-bay islands extending from Naples, Florida, through Everglades National Park and Florida Bay. These environmentally sensitive lands are in need of protection due to increasing pressures from nearby metropolitan growth. The Ten Thousand Islands Outparcel Acquisition Project provided an opportunity for the Rookery Bay National Estuarine Research Reserve (RBNERR) to restore and protect this unique coastal system. The grant focused on the purchase of remaining privately owned islands within the TTI; inventories of wildlife, vegetation, and cultural sites; and restoration of natural habitats by removing invasive vegetation.	www.rookerybay.org/rmgmt/current_projects.htm	grant, land acquisition, access, private, island, invasive species	FL
Brownfields GeoViewer	Florida Department of Environmental Protection	Brownfields GeoViewer is a mapping tool designed to help discover and map Brownfields in Florida. Using ESRI's ArcIMS software and the Florida Department of Environmental Protection's ArcSDE database, this tool can locate and display state-designated Brownfield areas and sites with signed rehabilitation agreements. This tool can help determine if those areas fall within or near other state or federal incentive zones, such as Enterprise Zones, the state's Front Porch Communities, or EPA's Brownfield Pilots. This tool also can find specific local government, state, and federal point of contacts.	http://gisweb3.dep.state.fl.us/dwm/brnfls/geosearch.html	GIS, brownfield, incentive	FL
Florida Assessment of Coastal Trends (FACT)	Florida Department of Environmental Protection	Florida Assessment of Coastal Trends (FACT) 2000 hopes to improve the usefulness of indicators compared to previous versions of FACT, in order to inform decision making for all coastal managers and policy makers. In this edition, the number of indicators has been purposefully limited; but an attempt has been made to provide a useful discussion of trends and to show the connections between different facets of coastal resource management.	http://www.dep.state.fl.us/secretary/legislative/coastal/publications/index.htm	biodiversity, access, hazards, community stewardship, marine health, waterfront revitalization	FL
Protecting Florida's Springs: Land Use Planning Strategies and Best Management Practices	Florida Department of Environmental Protection	As part of the Florida Springs Task Force, this manual is designed to help local governments, developers, landowners, and citizens learn about innovative and sensible planning strategies and tools they can use to protect springs. It focuses on how the local comprehensive plan can be used as an effective vehicle in this effort. The manual identifies specific best management practices for managing development impacts and highlights important information and financial resources to assist in spring protection.	www.1000friendsofflorida.org/Publications/Publications_Main.asp	land use planning, comprehensive planning, development impacts, funding	FL
Waterfront Florida Partnership	Florida Department of Environmental Protection	The Waterfront Florida Partnership, launched by the Florida Coastal Management Program in 1997, has been helping to chart a new course for its participating communities. The program was created to provide support, training, innovative technical assistance, and limited financial assistance to communities striving to revitalize and renew interest in their waterfront districts, areas which have a tradition of water-dependent vitality.	www.dep.state.fl.us/secretary/legislative/coastal/waterfronts/index.htm	training, waterfront, funding, communities	FL

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Smart Growth for Florida: Building the Wekiva Parkway	Florida Department of Environmental Protection	State and local governments worked together to build a major new road that not only alleviates congestion and prepares for growth, but also protects private property rights, safeguards agriculture, and preserves rivers, springs and endangered wildlife. The governor has asked the Departments of Community Affairs and Environmental Protection to help guide the bills through the Florida legislature. Decisive leadership by the legislature to endorse the consensus plan created by a project task force would establish a model for smart growth management for Florida's future.	www.dep.state.fl.us/secretary/comm/2003/april/0411_oped.htm	legislation, transportation	FL
Georgia Greenspace Program	Georgia Department of Natural Resources	The Georgia Community Greenspace Program was signed into law in 2000. The program provides an opportunity for urban and rapidly developing counties and their municipalities to preserve at least 20 percent of the land and water within their communities as permanently protected greenspace. This can be accomplished by acquiring and protecting land using state funds and local comprehensive land-use planning. Preserving lands for greenspace makes the communities attractive and livable, improves quality of life, and promotes economic competitiveness.	www.dnr.state.ga.us/dnr/greenspace/	grant, legislation, greenspace	GA
The Impact of Land Use Changes on the Salt Regimes of Georgia Estuaries	Georgia Department of Natural Resources, Coastal Resources Division	The research conducted for this project was a continuation of an integrated program to examine the effects of human-induced changes on the salinity regimes of coastal Georgia. The project had the following major objectives: 1) evaluate changes in land use over time, 2) couple changes in land use to freshwater runoff, 3) evaluate the response of the salinity regime of the Satilla River estuary to fluctuations in river discharge, 4) use the high and low discharge data sets to develop a predictive three-dimensional finite element salinity model, and 5) begin field efforts in the Ogeechee River.	http://alpha.marsci.uga.edu/coastalcouncil/wiegert_landuse2.htm	land use, GIS, water quality, salinity	GA
Georgia Alternatives for Coastal Growth	Georgia Department of Natural Resources	The NOAA Coastal Services Center is working with the Georgia Coastal Program and Georgia Conservancy, along with several other partners, to compare potential development scenarios at a coastal Georgia site using a geographic information system, three-dimensional visualization, and other analysis tools. The Center is also developing a Web site visualizing smart growth alternatives for coastal communities and documenting how various analysis tools can help communities analyze, communicate, and make decisions about growth and development along the coast.	Web site in Progress	land use planning, GIS, Web site, visualization	GA
Georgia's CoastalArk	Georgia Department of Natural Resources	Georgia's Coastal Ark is a 30-foot mobile classroom that uses the power of state-of-the-art technology to educate the citizens and local governments of Georgia about environmental issues that impact coastal resources. The Ark is funded by a grant through the U.S. Environmental Protection Agency. The Ark symbolizes Georgia's commitment to resource protection and management through a "bottom-up" approach to information sharing, training, and technical assistance. Targeting local officials, planners, zoning boards, builders, and the public in general, the mission of the Ark is to promote wise management and use of natural resources through education, planning, and cooperation.	http://crd.dnr.state.ga.us/content/displaycontent.asp?txtDocument=518	training, GIS, planning	GA

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Hawaii Public Outreach Booth	Hawaii Coastal Zone Management Program	This interactive booth promotes awareness of coastal resource management issues. The activities of the booth, specifically the coastal model, were designed to appeal to a wide range of grade school children. The goal of the coastal model is to expand the public's understanding of CZM's role in balancing environmental protection of our coastal and ocean resources with economic development. Staff members explain the concept of coastal zone management and community planning.	www.state.hi.us/dbedt/czm/public.html	training, outreach	HI
The Marine and Coastal Zone Management Advisory Group (MACZMAG)	Hawaii Coastal Zone Management Program	The Marine and Coastal Zone Management Advisory Group (MACZMAG) advises the Office of Planning on marine and coastal zone management planning and coordination, and facilitation of the functions of the program. The group is working toward the establishment and implementation of an integrated and comprehensive management system for marine and coastal resources. MACZMAG is composed of ten state officials, four county officials, and six nongovernmental members. The nongovernmental members are required to prepare and submit to the legislature a summary of the recommendations appearing in the minutes of the meetings of the advisory group during the prior calendar year and actions resulting from those recommendations	www.state.hi.us/dbedt/czm/public.html	planning, comprehensive land use plan, council	HI
GIS Applications for Coordination of Watershed and Land-Use Planning	Indiana Coastal Zone Management	This project developed a mechanism for linking land-use planning with watershed planning at the local level in the Lake Michigan watershed of Indiana. This was accomplished through educating local officials, planning commissions, and interested citizen groups on the importance and urgency of taking proactive land-use planning steps that are coordinated with local watershed plans. Another component of this project was providing access to geographic information system (GIS) analysis and visualization tools that allow local decision makers to better understand the implications of planning decisions. This project was funded with a special project grant from the NOAA Coastal Services Center.	www.csc.noaa.gov/funding/PastAwards1.html	GIS, land use, watershed, visualization	IN
Coastal Historic and Cultural Resources Study of the Lake Michigan Watershed	Lake Michigan Coastal Program	This tool can help community planners develop smart growth initiatives and maintain the character of their communities.	www.csc.noaa.gov/cgi-bin/magazine/mag_search.cgi?searchTerm=indiana%20&file=2001/05/indiana.html	study, population growth, historic	IN
Coast 2050	Louisiana Office of Coastal Restoration and Management	Coast 2050 was jointly initiated as a collective effort among the Coastal Wetlands Planning, Protection, and Restoration Act (Breaux Act) Task Force, the Louisiana Wetland Conservation and Restoration Authority (State Wetlands Authority), and the Department of Natural Resources Coastal Zone Management Authority. The goal was to provide a technically sound strategic plan to sustain coastal resources and provide an integrated multiple-use approach to ecosystem management. Ground Strategic Coastal Plan Consensus Building affects more than one mapping unit within the watershed basin. These are large-scale, complex plans involving considerable engineering, planning, and monitoring efforts.	www.lacoast.gov/Programs/2050/MainReport/report1.pdf	land use planning, consensus building, monitoring	LA

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GIS Mapping Tool for Developing a Coastal Development Policy at a Local Level	Waquoit Bay National Estuarine Research Reserve	This project involved building and creating a series of data layers and maps that allow for the convenient comparison of the human development and important marine features along a section of Falmouth's coastline. The project provided a set of graphic tools to aid the debate and guidance of public policy regarding the future development of Falmouth's coastline and protection of its marine resources over the next century. Activities included creating a series of maps showing topography, property parcels, houses, roads, and marine infrastructure within the "near coastal zone" of Falmouth's Nantucket Sound coastline.	www.waquoitbayreserve.org/resproj.htm#14	land use planning, infrastructure, GIS, policy	MA
Land Impacts on Water Quality	NOAA Fellow	The objective of this project was to define how the quantity and biological availability of terrigenous dissolved organic nitrogen (DON), transported to estuaries by groundwater flow, are influenced by the land-use mosaic of watersheds. The results were used to develop the ability to estimate the magnitude and biological availability of DON loads based on land use within watersheds. The results of this work will be incorporated into two nitrogen loading models, which will provide dramatically better estimates of effective nitrogen loads, and will improve management of coastal systems. In addition, this research will improve understanding of the biogeochemistry of organic matter cycling in coastal systems.	www.ocrm.nos.noaa.gov/grf/welcome.html	water quality, nitrogen, land use	MA
New Bedford, Massachusetts, Brownfield Pilot Study	EPA, NOAA, & New Bedford	New Bedford and the surrounding communities have developed a Regional Resource Restoration Master Plan to mitigate sprawl by cleaning up and redeveloping their brownfields for a range of purposes, from regional transportation service facilities to open space to mixed uses. Due to former industry, New Bedford's harbor is contaminated with PCBs and much of the waterfront includes underutilized brownfield sites. New Bedford is undertaking a brownfields cleanup and reuse initiative which, in combination with improvements in marine transportation and tourism, support economic diversification and environmental restoration. Tourism investments include establishment of the New Bedford National Historic Park, a new whaling museum, and plans for the New Bedford Oceanarium on a waterfront site. Marine transportation improvements will allow New Bedford to serve as a port for barge feeder service, cruise ships, and passengers and freight to Martha's Vineyard and Nantucket.	www.epa.gov/region1/pr/2003/jan/030109.html	brownfield, land use, infill, waterfront, port, harbor, transportation	MA
Maryland Growth and Resource Conservation Division (GRCD)	Maryland Coastal Program	Grants are provided to local governments to develop and implement land use planning policies that will further protect sensitive areas and reduce nonpoint source pollution.	www.dnr.state.md.us/bay/czm/	grant, land use, nonpoint source, water, pollution	MD
Coastal Corridor GIS Mapping	NOAA Coastal Services Center	This project involves encouraging four coastal Maine suburban communities to use smart growth principles and providing funding to assist the endeavor. The project helps these communities coordinate land use, coastal resource management, and transportation planning to protect the waters of Casco Bay and area shellfish resources from nonpoint source pollution. This project is a cooperative effort among four coastal towns to use a geographic information system (GIS) as a tool to determine the most prudent way to coordinate future residential and commercial development.	www.csc.noaa.gov/stateproj/	GIS, land use planning, transportation planning, nonpoint source pollution	ME

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Implementing a Coordinated Approach to Growth Management for Hancock County	NOAA Coastal Services Center	The purpose of this project was to build regional capacity to manage growth and development in coastal Hancock County. The project will develop this capacity by establishing and implementing a regional policy development process and a framework for growth and development. A steering committee will build stakeholder and community consensus, formulate regional policies, conduct a public participation symposium, plan implementation strategies, and document, evaluate, and analyze results.	www.csc.noaa.gov/stateproj/	public participation, managing growth, regional policy	ME
Smart Growth Toolbox	Maine Coastal Program	The Maine Coastal Program helped create and distribute the “Smart Growth Toolbox,” a kit containing publications, videos, model ordinances, and other resources to help professionals and volunteers plan for smart growth.	www.state.me.us/spo/landuse/aboutus/index.php	training resource	ME
Software Called “What If?”	Maine Coastal Program	Coastal Program funds for new software enabled the Southern Maine Regional Planning Commission to analyze existing development patterns and display a variety of future land-use scenarios—showing how different policies and standards would affect development.	www.state.me.us/mcp/online_resources/ftp.html	development, patterns, future, land use	ME
Internet Mapping Service for Development Patterns	Maine Coastal Program	The Greater Portland Council of Governments’ Internet Mapping Service gained a new smart growth component, thanks to Maine Coastal Program funding. This technology will help municipalities analyze development patterns and determine the effectiveness of smart growth planning.	www.state.me.us/mcp/online_resources/ftp.html	Internet Mapping Systems, GIS, land use, planning	ME
Training Programs	Maine Coastal Program	Training programs help both professional planners and volunteers do their jobs more effectively. In 2001 the coastal program produced an informative booklet for municipal officials and interested citizens entitled “Marine Aquaculture—How the Public Can Participate in the Leasing Process”; provided funds to help local plumbing inspectors learn about septic system installation techniques that prevent water quality degradation; and sponsored a workshop for 42 design professionals, state and local officials, and builders on new construction techniques for use in floodplains.	www.state.me.us/mcp/online_resources/ftp.html	training, septic, water quality, land use	ME
Maine Smart Growth Institute's Professional Development Program	Maine Coastal Program	The Maine Coastal Program co-hosted the Fall 2001 Maine Smart Growth Institute, an intensive two-week professional development program attended by 50 planners, engineers, designers, and local officials.	www.state.me.us/mcp/online_resources/ftp.html	training	ME
Grants to Smart Growth Projects	Maine Coastal Program	To plan and implement good ideas, coastal municipalities need financial resources. Maine Coastal Program grants and state matching funds supported the following types of community projects: fisheries, local agriculture, urban and regional planning, redeveloping waterfronts, and drafting comprehensive plans	www.state.me.us/mcp/online_resources/ftp.html	grants, waterfront, fisheries, planning	ME

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The Watershed Conservation Update	Maine Coastal Program	The project goal is to provide timely, pertinent, and concise information and resources to volunteers and professionals working on watershed conservation issues in Southern Maine and nearby New Hampshire. The Wells National Estuarine Research Reserve Stewardship Department supports community efforts to conserve natural resources by 1) facilitating collaborations for regional conservation planning, 2) providing access to natural resource information, 3) offering geographic information system (GIS) mapping services, 4) promoting training opportunities, 5) providing outreach and communication services, and 6) publicizing conservation-related events and successes.	www.state.me.us/mcp/online_resources/ftp.html	watershed, conservation, planning, GIS, training	ME
Coastal Corridor GIS Mapping	Maine Coastal Program & NOAA	This project is developing a locally supported smart growth plan, based on regional coastal habitat priorities, that improves habitat connectivity and water quality protection, as well as helps to prioritize what open space lands are permanently protected. This project is a growth management partnership with various state and local agencies and is funded with a special project grant from the NOAA Coastal Services Center.	www.csc.noaa.gov/stateproj/	grant, planning, open space	ME
Filling the Gaps: Environmental Protection Options for Local Governments	Michigan Department of Environmental Quality	This book was written in response to environmental concerns that have been raised by land use officials from Michigan. The book is intended to serve as a land use tool for these officials, and it addresses issues such as wetlands, erosion, watersheds, floodplains, sand dunes, and local planning and zoning.	www.michigan.gov/deq/0,1607,7-135-3313_3677_3696-73358--,00.html	land use tool, local officials, wetlands, erosion, watersheds, floodplains, sand dunes, and local planning and zoning	MI
A Guide for Buying and Managing Shoreland	Minnesota Department of Natural Resources	The guide is available as a booklet, and covers the importance of water resources, education, legislation, and good environmental practices.	www.dnr.state.mn.us/shorelandmgmt/guide/index.html	booklet, water resource guide, development	MN
Sample Shoreland Management Ordinance	Minnesota Department of Natural Resources	This sample ordinance includes the full array of zoning and subdivision regulations for the most complex or all-inclusive of shoreland management situations, and thus provides a framework or baseline for the Minnesota Department of Natural Resources' review of a local government's adopted shoreland ordinance. A community could adopt the document as a separate section within its existing zoning and subdivision regulations. However, if a community has no existing community-wide land-use regulations at the time of shoreland ordinance adoption, then additional administrative and development review processes, as explained within the document, would have to be established.	www.dnr.state.mn.us/waters/watermgmt_section/shoreland/index.html	sample ordinance, zoning, management, regulations,	MN
Protecting Minnesota's Natural Treasures – Case Studies	Minnesota Department of Natural Resources	These case studies show how Minnesota communities have used ecological information to protect their natural heritage. More than 20 programs collect and deliver ecological data on Minnesota's native plant and animal populations and their habitats. Four of these programs survey, map, interpret, and protect locations of significant native plant communities, rare plants, and rare animals. Local governments, landowners, and resource managers are among the many Minnesotans who have used this information to guide planning and land use policy and to protect some of the state's best natural areas.	www.dnr.state.mn.us/ecological_services/index.html	case studies, ecology, maps, land use, policy	MN

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Land Protection Options: A Handbook for Minnesota Landowners	Minnesota Department of Natural Resources	This booklet shares information sources for how open spaces can be preserved. It contains charts, tables, photographs, and illustrations, combined with chapters on tax matters and stewardship considerations.	www.dnr.state.mn.us/ecological_services/pubs.html	open space preservation, tax incentives, stewardship considerations, land use	MN
Native Prairie Bank Program	Minnesota Department of Natural Resources	In 1987, the Minnesota state legislature created the Native Prairie Bank program as part of the Reinvest in Minnesota legislation. This program allows landowners to protect native prairie on their property through a conservation easement with the Minnesota Department of Natural Resources. Permanent easements receive priority.	www.dnr.state.mn.us/ecological_services/pubs.html	land use, easement, bank, invasive species	MN
Native Prairie Tax Exemption Program	Minnesota Department of Natural Resources	This program helps landowners preserve their prairie land by exempting it from property taxes. The Native Prairie Tax Exemption renews itself automatically every year, as long as the land remains native prairie. The Native Prairie Tax Exemption is administered by the Minnesota Department of Natural Resources in cooperation with county tax assessors.	www.dnr.state.mn.us/ecological_services/pubs.html	land, taxes, preservation, invasive species	MN
Saipan Watershed Atlas	Commonwealth of the Northern Mariana Islands – Coastal Resources Management Office	This Internet mapping system of watersheds in Saipan includes layers for topography, soils, geology, roads, and coral reefs.	www.crm.gov.mp/gis/atlas/watr_atl.htm	GIS, IMS, internet, public outreach	MP
Pelican Landing, Moss Point, Mississippi	Mississippi Department of Marine Resources	Pelican Landing is a new conference facility on a previously contaminated waterfront. High school students were involved in restoring native wetland plants on the site, and interpretive signs were added. The site had previously been used as a dumping ground for junked cars and other debris. The project is considered the first significant step in the city's efforts to enhance the local economy through the revitalization of its waterfront.	www.epa.gov/owow/wetland/s/restore/5star/fy00grants.html	brownfield redevelopment	MS
Comprehensive Resource Management Plan (CRMP)	Mississippi Department of Marine Resources	The Comprehensive Resource Management Plan (CRMP) is focused on developing a comprehensive strategy, along with the necessary tools, to manage the impacts of economic growth and development on the environment of the Mississippi Gulf Coast. Key concerns include nonpoint source water pollution and the loss of critical wildlife habitat.	www.dmr.state.ms.us/Coastal%20Ecology/CRMP/crmp-home.htm	economic development, growth, nonpoint source pollution, loss of critical habitat, waterfront	MS
Special Area Management Plans (SAMPs)	NOAA Office of Ocean and Coastal Resource Management	The NOAA Office of Ocean and Coastal Resource Management is working with several cities and counties throughout the country to establish Special Area Management Plans, or SAMPs. SAMPs provide critical insight into the impacts on water quality and the effects of development patterns on wetlands and critical habitat. This information will be integrated into local comprehensive plans, and the states will work with counties to develop new strategies for implementing actions outlined in the SAMPs.	www.ocrm.nos.noaa.gov/czm/	SAMP, planning	Nation wide
LEED Green Building Rating System	Grand Bay National Estuarine Research Reserve	The LEED (Leadership in Energy and Environmental Design) system is a voluntary, consensus-based national standard for developing high-performance, sustainable buildings.	www.usgbc.org/LEED/LEED_main.asp	green, development, funding, university, solar, water conservation, LEED	Nation wide

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Nonpoint Source Pollution for Municipal Officials (NEMO)	Sea Grant – Pilot Project at University of Connecticut	NEMO focuses on providing technology-assisted land-use education to community decision makers. However, NEMO encourages all interested local groups, not just the boards directly responsible for land-use decisions, to get involved in various aspects of natural resource-based planning, because public understanding and acceptance is crucial for implementation. In order to include all members of a community, NEMO offers education packages to schools as well. The key to the programs success is to present complex information in a manner that is easily understandable for diverse audiences.	www.csc.noaa.gov/communities/foundation_more.html	training, workshop, grant, nonpoint source pollution, GIS, NEMO	Nation wide
Performance Indicators Visualization and Outreach Tool (PIVOT)	NOAA Coastal Services Center	The Performance Indicators Visualization and Outreach Tool (PIVOT) is a performance-reporting tool that incorporates management plan text, images, and interactive maps and graphics into a user-friendly, Web-based format. The goal of Build-a-PIVOT is to help users build their own Web-based PIVOT sites to promote community understanding of management issues and to document progress achieved through management actions.	www.csc.noaa.gov/products/pivot/	GIS, CD-Rom, performance indicators, PIVOT, Build-A-PIVOT CD-ROM	Nation wide
Coastal Change Analysis Program (C-CAP)	NOAA Coastal Services Center	The Coastal Change Analysis Program (C-CAP) is a national effort to develop and distribute regional land cover and change analysis data for the coastal zone by using remote sensing technology. In addition to data development, C-CAP establishes guidelines and standards for developing digital, regional land cover and change data along the nation's coastal zone. The data used in this program are created from a combination of satellites and fieldwork. C-CAP classifies land cover types into 22 standardized classes that include forested areas, urban areas, and wetlands.	www.csc.noaa.gov/crs/lca/ccap.html	GIS, remote sensing, land cover change C-CAP	Nation wide
Coastal Decision Makers Workshop	NOAA Office of Ocean and Coastal Resource Management	The Coastal Training Program provides up-to-date scientific information and skill-building opportunities to individuals who are responsible for making decisions that affect coastal resources. Through this program, National Estuarine Research Reserves can ensure that coastal decision-makers have the knowledge and tools they need to address critical resource management issues of concern to local communities. Since 1994, through workshops and seminars alone, reserves have reached over 13,000 coastal decision makers. These programs have resulted in better-informed decision making about coastal resource issues and improved coastal stewardship at local and regional levels.	www.ocrm.nos.noaa.gov/nerr/wrkshp.html	training, tools, community	Nation wide
Workshop on the Importance of Coastal Marsh Buffers	North Carolina National Estuarine Research Reserve	This workshop involved answering questions about the role of coastal buffers: “Does one need to know more about coastal buffers and how they offer protection? How does a coastal marsh function? How do we keep these environments functioning properly? How do managers measure growth and changes?” Speakers focused on the importance of salt marshes in the area, what role microbes play, and how the marshes can best be protected for the future.	www.ncnerr.org/ccs/workshops/060501/060501.html	buffers, water quality, nonpoint source pollution, education	NC

State Coastal Programs and National Estuarine Research Reserves (NERRs)

Title	Agency	Description	Web site	Keywords	State
Vegetated Buffers: Improving Environmental Quality in Coastal North Carolina	North Carolina National Estuarine Research Reserve	This brochure outlines the benefits of vegetative buffers. As development along North Carolina shorelines increases and seasonal and year-round populations in coastal communities grow, controlling nonpoint source pollution becomes critical. The problems associated with this pollution include harmful algal blooms, fish kills, sediment plumes, and shellfish closures. Increasing conversion of natural land cover to impervious surfaces, such as parking lots, houses, and roads, is the major factor contributing to this problem. Buffers can be used to mitigate storm water pollution.	www.ncnerr.org/ccs/publications/index.html	buffers, water quality, nonpoint source pollution	NC
Creating a Land Suitability Analysis Tool for Local Government Land-Use Planning	North Carolina Division of Coastal Management	The goals of this project were to design an interactive ArcView pilot program for conducting land suitability analysis in local government land-use planning; to build capacity of local governments; and to put into action the recommendations of the North Carolina Coastal Area Management Act Land Use Planning Review Team.	http://dcm2.ehnr.state.nc.us/index.htm	GIS, land use, planning	NC
Social and Environmental Change in Coastal North Carolina	North Carolina Division of Coastal Management	The focus of this project is to develop a descriptive handbook and CD-ROM illustrating socioeconomic, demographic, and environmental change in North Carolina coastal counties. This project provides a wide audience—including Sea Grant extension program staff, land-use and urban planners, educators, and local government officials—with a means to describe these changes and inform management and policy decisions. This pilot project focuses on North Carolina coastal counties, but has broader applicability to other coastal states. The project is a collaborative effort of the NOAA Coastal Services Center, the North Carolina Sea Grant Extension Program, and a group of coastal planners, resource management professionals, and educators.	Project is not complete at this time	GIS, socioeconomic, population, change	NC
Dealing with Growth	New Hampshire Natural Resource Outreach Coalition (NROC) and NOAA	For this project, the Natural Resource Outreach Coalition (NROC) is combining educational programs, technical assistance, and regional problem-solving for one region in the New Hampshire watershed to help protect its natural resources. This effort focuses available education and technical assistance resources in the area, provides ongoing assistance to municipal officials, and encourages all 43 municipalities in the watershed to address the impacts of growth on its natural resources.	www.ci.dover.nh.us/planning/conservation/smart.htm	training, watershed, local planning	NH
Educating and Informing the Public about the Effects of Development on Fish and Wildlife	New Hampshire Department of Fish and Game	This grant-funded project will continue to improve awareness and understanding of the New Hampshire's coastal resources and issues through the development of two print publications and two television programs that will focus on coastal species, habitats, and issues.	www.state.nh.us/coastal/Grants/grants02.htm	training	NH
Natural Resources Outreach Coalition (NROC)	New Hampshire Natural Resource Outreach Coalition (NROC)	A group of organizations and agencies united to create the Natural Resources Outreach Coalition (NROC). NROC team members support communities facing growth by helping them understand 1) the status of their natural resources; 2) the potential impacts of growth on those resources; and 3) techniques for protecting economic health, community character, and environmental quality. "Dealing with Growth" is a presentation that depicts the status of a community's natural resources and introduces various techniques for managing them.	http://webster.state.nh.us/coastal/CoastalPlanning/nroc.htm	training, community	NH

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Title	Agency	Description	Web site	Keywords	State
Coastal Watershed Brownfields Assessment Demonstration Pilot	New Hampshire Coastal Program	The New Hampshire Coastal Program (NHCP) was awarded a \$200,000 supplemental assistance grant for the Coastal Watershed Brownfields Assessment Demonstration Pilot. This grant will supplement the current NHCP \$200,000 grant. Across the nation, a total of \$14.6 million in brownfields grants were awarded to assess the contamination of abandoned properties in 80 communities.	http://webster.state.nh.us/coastal/WaterQuality/brownfields.htm	grant, brownfield	NH
Impervious Surfaces	New Jersey Department of Environmental Protection	This project investigated the effects of impervious surfaces on water quality. The NOAA Coastal Services Center developed and evaluated a tool that derives impervious surface information from remotely sensed land cover data. The accuracy of the tool and the relationship of impervious surface cover to water quality were tested using data collected by the New Jersey Department of Environmental Protection. Conducted in cooperation with the Nonpoint Education for Municipal Officials (NEMO) program and state coastal managers in New Jersey, this project creates a model for useful, integrated water quality products.	www.csc.noaa.gov/crs/is/	impervious surface, NEMO, land cover, water quality	NJ
Technology for Land Use Planning	Jacques Cousteau National Estuarine Research Reserve	The 5 Steps to Comprehensive Land Use Planning has been adapted from and will be used in conjunction with Environmental Planning for Small Communities.	http://www.jcnerr.org/coastal_training/planning.htm	land planning, community	NJ
Integrating Land Use Change Models and Stakeholder Interests into a Framework for Coastal Management	NOAA Fellow	This project integrated future land use change modeling and stakeholder participation into a planning framework that addresses the management needs of the coastal watersheds. The project had two components. The first modeled future land-use changes. This involved the creation of a build-out scenario and an examination of incremental change over time based on various predictive mechanisms. The second component of the project focused on facilitated stakeholder participation during the modeling process, through a series of community meetings. Stakeholders helped determine modeling scenarios, and used those scenarios to develop a set of acceptable management strategies.	www.ocrm.nos.noaa.gov/grf/welcome.html	land use planning, public involvement, stakeholders, alternatives	NJ
New York State Niagara Mohawk Power Corporation Brownfield Redevelopment	Department of Environmental Conservation (DEC)	Brownfields redevelopment is an important part of smart growth and the revitalization of the State of New York's urban areas. Manufactured gas plants operated in many cities and towns across New York, primarily during the 1850s to 1950s, and converted coal, or a combination of coal, oil, and water, into a gas used for lighting and heating.	www.dec.state.ny.us	brownfield, infill, power	NY
Comprehensive Management Plan for the Long Island South Shore Estuary Reserve	New York Division of Coastal Resources	Using CZM funds and state dollars, a Comprehensive Management Plan for the Long Island South Shore Estuary Reserve was completed. Priorities include expanding public use, supporting water-dependent businesses, and enhancing maritime centers.	www.dos.state.ny.us/cstl/cstlwww.html	grant, public access, water dependent uses	NY
Funding for Brownfields and Waterfront Redevelopment	New York Division of Coastal Resources	These grants focus on brownfields and waterfront redevelopment projects.	www.dos.state.ny.us/cstl/cstlwww.html	grant, brownfield, waterfront	NY
New York Brownfields	New York Division of Coastal Resources	This project involves reclaiming hundreds of acres of urban brownfields in the City of Glen Cove and in other coastal communities for significant new economic uses through unique federal, state, local, and not-for-profit partnerships.	www.dos.state.ny.us/cstl/cstlwww.html	grant, brownfield, waterfront	NY

State Coastal Programs and National Estuarine Research Reserves (NERRs)

Title	Agency	Description	Web site	Keywords	State
Integrated Management Team	Ohio Coastal Management Program	An Integrated Management Team (IMT) comprised of 12 Ohio Department of Natural Resources divisions was created to coordinate coastal resource management within the department. This group, with leadership from the Ohio Coastal Management Program, formed four working committees: Building Public Support, Best of the Last (protection and acquisition of valuable coastal properties), Coastal Hazards, and Resource Inventories. The team developed and revised a strategic action plan for coastal management and published a large-format glossy summary, a smaller brochure for the public, and a PowerPoint presentation regarding the strategic action plan.	www.dnr.state.oh.us/coastal/accomplishments.htm	coastal management, public involvement, acquisition of coastal properties, hazards, council	OH
Urban Streams and Watershed Management	Ohio Coastal Management Program	The Ohio Coastal Management Program (OCMP) assisted with initial funding of the Urban Streams program, through which seven Urban Streams Specialists were hired in coastal watershed counties to educate and work with local governments and residents to foster urban watershed stewardship in a variety of ways. The OCMP also initiated the Arcola Creek Watershed Study and Planning process under contract with the Lake County Soil and Water Conservation District. The Lake County Soil and Water Conservation District (SWCD) is working to increase support and involvement of watershed stakeholders, inventory the watershed's resources, assess current programs to determine present and future impacts, and provide professional and technical support to Friends of Arcola Creek. The Lake County SWCD conducted a riparian landowner survey in 1999 and as a result has entered into several conservation easements to protect riparian habitat in the watershed.	www.dnr.state.oh.us/coastal/accomplishments.htm	watershed, conservation easements, funding	OH
Development of an Environmentally Optimized Land Use Model to Control Nonpoint Source Pollution from Agricultural Areas	NOAA Fellow	This study addressed the coastal management problems related to nonpoint source pollution from an agricultural watershed. The impacts of the agricultural land use in the proximate areas of Lake Erie and Old Woman Creek were evaluated and the optimal land use management was proposed to minimize the impacts on water quality. A spatiotemporal model will be developed to describe current environmental conditions and estimate future water quality using long-term monitoring data from the National Estuarine Research Reserve at the Old Woman Creek Reserve in Ohio. The model will simulate the amount of nonpoint source pollution loading from the agricultural areas and optimally allocate the coastal buffers in critical areas to meet the environmental goal set by the Ohio Lake Erie Commission. This study would make a valuable contribution to Lake Erie and other Great Lakes coastal areas, accurately estimating the pollution loadings from agricultural land uses to establish proper regulations and guidelines to control them.	www.ocrm.nos.noaa.gov/grf/welcome.html	land use planning, remote sensing, GIS, nonpoint source pollution	OH

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Title	Agency	Description	Web site	Keywords	State
Ohio Coastal Hazards and Technical Assistance	Ohio Coastal Management Program	This project involves site visits and evaluations to provide technical assistance to property owners regarding coastal processes, Classification Exception Area (CEA) delineations, and submerged lands boundary determinations. Ohio's Division of Geological Survey continues to compile and verify data for a shore structure inventory, and more than 5,000 structures have been inventoried. This inventory contains information on the type, location, relative effectiveness, and impact of erosion control measures built along Ohio's Lake Erie coastline. This inventory will ultimately provide a technical foundation for comprehensive planning at state and local levels.	www.dnr.state.oh.us/coastal/accomplishments.htm	hazard assessment, land use planning	OH
Ohio Research Reserve Coordination and Coastal Training Institute Development	Ohio Coastal Management Program and Old Woman Creek National Estuarine Research	A joint planning effort fosters improved coordination of activities and the development of a joint operational plan. Staff from the Ohio Coastal Management Program (OCMP) and Old Woman Creek (OWC) National Estuarine Research identified six principal areas of focus on which they will work cooperatively: Coastal Training Institutes development; CZ01 planning; packaging and marketing of programs; and developing more active and effective partnerships with the NOAA Great Lakes Environmental Research Laboratory, Ohio Sea Grant, Ohio Lake Erie Commission Office, and other research and educational institutions. OCMP and OWC partnered with the Ohio Sea Grant College Program to develop a Coastal Training Institute to educate local officials, organizations, and planners regarding innovations in coastal resource management and Sustainable Community development.	www.dnr.state.oh.us/coastal/accomplishments.htm	education, land use planning, sustainable development,	OH
Chagrin River Watershed Project	Ohio Coastal Management Program	The Ohio Coastal Management Program supports the Chagrin River Watershed Partners (CRWP) with a project that will assess long-term hydrology trends in the Chagrin River Watershed using U.S. Geological Survey gage data. Based on identified trends, land-use changes and regional climatic factors will help the group determine if there are relationships between land-use changes and hydrology. CRWP will document and disseminate the results of these tasks to communities in the watershed. The results of this analysis will help local communities establish best management practices and update their zoning and subdivision regulations to improve watershed protection.	www.dnr.state.oh.us/coastal/local/crwp.htm	land use planning, climate, BMPs, zoning, grant, watershed, climate, hydrology	OH
Ohio Coastal Management Assistance Grants	Ohio Coastal Management Program	The purpose of these reimbursement grants is to preserve, protect, enhance, restore and promote wise use of, or provide or enhance public access to, Lake Erie's coastal resources. One of the main goals of the Ohio Coastal Management Program is to promote a sustainable Ohio coast and Lake Erie. Comprehensive community planning is being given priority for funding this cycle in an effort to encourage coastal areas to plan for sustaining their communities in the long-term.	www.dnr.state.oh.us/coastal/cmag/cmag7.htm	grant, land use planning, public access, redevelopment, reuse	OH

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Title	Agency	Description	Web site	Keywords	State
Performance Indicators Visualization and Outreach Tool (PIVOT)	Tillamook County, Oregon, and NOAA	The PIVOT prototype developed for Tillamook County, Oregon, supports and enhances the community accountability and reporting efforts of a local-watershed sustainable-management initiative. Using geographic information system (GIS) data in educational graphics and interactive maps, this Internet-based outreach tool helps bring complex sustainable management plans to life for the community. The tool is useful for clarifying issues, outlining action steps, and encouraging stakeholders to interpret the effectiveness of management decisions. The NOAA Coastal Services Center will continue to showcase the prototype and has produced a CD-ROM that adapts the interactive Internet application to other sustainable community initiatives.	http://gisweb.co.tillamook.or.us/mapping/pivot/tillamook.htm	GIS, PIVOT, watershed, community, involvement, public	OR
Land Recycling Program	Pennsylvania Coastal Zone Management Program	Pennsylvania's Land Recycling Program is a model for establishing a new paradigm and philosophy in the field of contaminated site management, which facilitates the redevelopment of previously used property and thereby reduces the encroachment of growth upon undeveloped land. In the past four years, more than 650 sites have been remediated, and more than 1,000 site cleanups have been initiated.	www.dep.state.pa.us/river/czmp.htm#highlights	brownfield	PA
Funding for 12 Local Planning Projects	Pennsylvania Coastal Zone Management Program	The Coastal Zone Management Program provided funding for 12 various local planning projects.	www.dep.state.pa.us/river/czmp.htm#highlights	land use planning, funding, local	PA
Coastal Zone Municipalities Parcel Digitization and Zoning Map Preparation	Erie County Department of Planning	This project consists of the preparation of base maps for three coastal zone municipalities. These municipalities are the City of Erie, Lake City Borough, and Lawrence Park Township. The county proposes to use geographic information system technology and digital mapping techniques to generate tax parcel maps for the designated study area. These maps will become important tools for land use planning efforts, zoning regulation, and other purposes.	www.dep.state.pa.us/river/docs/2001pjlst.htm	land planning, zoning, maps, GIS	PA
Erie Cruise Terminal Enhancements	Erie Western Pennsylvania Port Authority	The Erie-Western Pennsylvania Port Authority constructed a multimillion-dollar cruise ship terminal as part of a transportation node being developed in the Lake Erie Coastal Zone along the Presque Isle Bayfront District. This terminal is located adjacent to the new \$7 million Inter-modal Center, a joint redevelopment project of the Erie Metropolitan Transit Authority (MTA), the Federal Transit Administration, and the Port Authority. The new terminal was built on a vacant brownfield site and will allow tourists to utilize and enjoy the coastal zone's varied natural, cultural, historic, and recreational assets.	www.dep.state.pa.us/river/docs/2001pjlst.htm	ports, cruise ships, Great Lakes, transportation, portfield, brownfield, funding	PA
Springfield Township Comprehensive Plan	Erie County Department of Planning	The Erie County Department of Planning revised the comprehensive plan of Springfield Township. Springfield's former comprehensive plan was adopted in 1977, indicating that a complete revision was in order. To develop future goals and explore alternative futures for the community, existing planning documents and surveys of natural and cultural features were reviewed; current land-use patterns and infrastructure were examined; and population, housing, and employment trends were analyzed. The new comprehensive plan emphasizes land-use planning, defines the direction and pattern of future development, and is intended to provide guidance in managing growth over the next 10 to 20 years.	www.dep.state.pa.us/river/docs/2001pjlst.htm	land planning, comprehensive plan	PA

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Title	Agency	Description	Web site	Keywords	State
Erie County Agriculture Conservation Easement Program	Pennsylvania Coastal Zone Management Program	This project involves the Purchase of Agricultural Conservation Easement Program to stop the rapid loss of farmland. Under the program, the government or a conservation organization buys the development rights to high-quality farmland, keeping the agricultural use of the land viable for future generations. Private ownership of the land is retained, and current or future owners can continue to farm and sell the property. The agricultural easement is purchased in perpetuity and is binding on all future landowners.	www.eriecountyp planning.org	PDR, agriculture, farm, conservation easements, purchase of development rights	PA
Greenway Acquisitions	Pennsylvania Department of Environmental Protection Office for River Basin Cooperation	The Great Lakes Restoration Fund provided the Pennsylvania Coastal Zone Management Program with a unique opportunity to protect critical greenways in the Lake Erie coastal zone. Through this fund, 114 acres of several types of coastal habitat will be preserved as open space. The Erie County Conservation District (ECCD) will acquire 32 acres of wetlands adjacent to Headwaters Conservation Park, and will deliver a series of educational workshops showcasing the value of this wetland in filtering roadway drainage and capturing accidental spills that may occur at the heavily used I-90 interchange. Products include Reed Estate Greenway Acquisition Final Report, photos, and a site map.	www.dep.state.pa.us/river/docs/glcrgpjlst.htm	greenway, Great Lakes Restoration Fund, stormwater management, open space, workshop, training	PA
Lawrence Park Township and Wesleyville Borough Comprehensive Plan	Erie County Department of Planning	The development of a joint comprehensive plan will assist Lawrence Park Township and Wesleyville Borough in complying with current state policies and serve to guide the future growth and development of both of these municipalities for the next 12 to 15 years. This plan is needed to address real-world growth concerns and recent legislation pertaining to sound land use, zoning, and other community planning issues. Other actions will include identifying and mapping steep slopes, wetlands, stream/floodplains, zoning, and historic land uses and determining areas suitable or desirable for further growth and development. A statistical transportation analysis will be conducted, using a wide variety of sources, which will focus on traffic counts to determine problem areas; volume; level of service or congestion; accident information; municipal officials' input; long range plans; and Transportation Improvement Plan summaries.	www.dep.state.pa.us/river/docs/glcrgpjlst.htm	comprehensive plan, mapping, transportation, land use, zoning	PA
Springfield Township Zoning and Subdivision, Land Development Ordinance	Erie County Department of Planning	The Springfield Township Comprehensive plan, developed by the Erie County Department of Planning (ECDP), provides the basic framework of understanding needed to develop a zoning ordinance and subdivision and land development ordinance to guide development well into the twenty-first century. To update the ordinance, ECDP reviewed and collected background information, defined community priorities, and examined whether changes were necessary to the general provisions, definitions, lot and yard requirements, administration, enforcement and violations, agricultural preservation zoning, and design standards. ECDP will hold public meetings in coordination with Springfield Township's local Zoning Hearing Board. Concurrent with this work, the county will also be updating township mapping to reflect and complement these changes.	www.dep.state.pa.us/river/docs/glcrgpjlst.htm	comprehensive plan, zoning ordinance, land use, zoning, public meetings	PA

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Erie West Side Parcel Digitizing	Erie County Department of Planning	New digital mapping and geographic information systems technology allows a wide range of maps to be produced by a smaller municipality, maps that might have been too costly or time consuming to be produced previously. A vital step in the comprehensive planning process, tax parcel-based mapping will assist in planning decisions for zoning, utility placement, land use, housing, and more. In addition to aiding the city in its planning efforts, a completed tax parcel base map for the entire Erie County Coastal Zone will allow digital mapping to take place for any subsequent coastal zone project, either at the municipal or county-wide level. To create the parcel maps, digital images of Erie County Bureau of Assessment Tax Parcel Maps will be rectified and georeferenced to the municipal street centerlines and boundaries using ARCInfo version 8. The parcel lines will then be digitized.	www.eriecountyp Planning.org/coastalzone/index.html	GIS, zoning, mapping, comprehensive plan	PA
Girard Township Bluff Mapping Project	Erie County Department of Planning	Because surface and aerial mapping has become outdated and inaccurate, upgrading aerial and surface topographic base mapping for administration and enforcement endeavors. New mapping will assist supervisors and other officials in making sound land-use management decisions. Technology has advanced to allow for digitized mapping using geographic information systems (GIS) and adding overlays such as property lines, structures, and other physical features. All work will meet national mapping standards.	www.eriecountyp Planning.org/coastalzone/index.html	Bluff Setback Ordinance, bluff recession, GIS mapping	PA
Integrating Urban Runoff Management Measures into Pennsylvania's Storm Water Management Planning	Pennsylvania Department of Environmental Protection	Urban runoff has been identified as a major concern throughout Pennsylvania's watersheds, especially in the urban and suburban areas of Philadelphia. Pennsylvania's Stormwater Management Program (Act 167) requires that 1) storm water management planning be undertaken by all counties in all watersheds; 2) plans address both storm water quantity and quality; 3) municipalities within each watershed cooperate to develop a management plan; 4) municipalities implement the plan's recommendations, including developing storm water management ordinances with public involvement; and 5) public and municipal educational programs be implemented. This project will allow Pennsylvania to integrate the Coastal Nonpoint Pollution Program (CNPP) Urban Runoff Management Measures with the storm water management planning efforts in Pennsylvania's CNPP management area.	www.dep.state.pa.us	storm water management; urban runoff, Coastal Nonpoint Pollution Program, watershed	PA
Pennsylvania Coastal and Estuarine Land Conservation Program (CELCP) Plan	NOAA and Pennsylvania Coastal Program	Created by the fiscal year 2002 Appropriations Act, the Coastal and Estuarine Land Conservation Program (CELCP) immediately provided \$15.85 million for 21 identified land acquisition and conservation projects. In addition, Congress directed the Secretary of Commerce to establish a program to protect coastal and estuarine areas that have significant conservation, recreational, ecological, historical, or aesthetic values and to develop guidelines for distributing land acquisition funds in future years under this program. To be eligible for additional funding for land acquisition, coastal states must first have a NOAA-approved CELCP plan in place. Since Pennsylvania does not currently have such a plan, the Delaware Valley Regional Planning Commission (DVRPC) will assist the Pennsylvania Coastal Zone Management Program in developing and producing a CELCP plan for submission to and consideration by the Office of Ocean and Coastal Resource Management (OCRM) of NOAA.	http://coastalmanagement.noaa.gov/landconservation.html	CELCP, funding, conservation	PA

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Rhode Island's Governor's Growth Planning Council	Coastal Resources Management Council	The Growth Planning Council was formed to better balance Rhode Island's needs for economic and residential development with those for environmental preservation. Continued growth of Rhode Island will dramatically change the face of the state in the future, and the integration of economic development, environmental protection and preservation, and community needs is essential to maintain and enhance the quality of life for future generations. Special Area Management Plans (SAMPs) have been developed for Greenwich Bay, the salt ponds on the south shore, the Narrow River estuary, the Pawcatuck River and Little Narragansett Bay, and Providence Harbor.	www.planning.state.ri.us/gpc/default.htm	council, economic, development, preservation, community	RI
Coastal Land-Use Techniques Training Program	South Carolina Department of Health and Environmental Control	Funding from this project was utilized to develop and implement a training program for local policy makers. Topics include coastal issues and the tools and techniques available to address these issues, plus the legal aspects of using local government power. This project was funded with a special project grant from the NOAA Coastal Services Center.	www.scdhec.net/ocrm/	grant, land use planning	SC
Development Costs and Benefits of Coastal Growth Patterns	South Carolina Department of Health and Environmental Control	The goal of this project is to demonstrate to the Growth Options Partnering Committee, as well as to local governments and the development and real estate communities, that developing coastal lands in an efficient, responsible manner will profit the developer equally, if not more, than if the same lands were developed in an indiscriminant manner. The aim of the project is to perform a growth costs study using spatial data and geographic information system (GIS) technology and then report the findings to the committee. This project was funded with a special project grant from the NOAA Coastal Services Center.	www.scdhec.net/ocrm/	grant, economic study, real estate	SC
Publications about Sensitive Coastal Resources	South Carolina Department of Health and Environmental Control	This project involves producing and distributing publications that outline actions that individuals and local governments can take to help safeguard sensitive coastal resources.	www.scdhec.net/ocrm/	educational materials, local government	SC
South Carolina Council on Coastal Futures	South Carolina Department of Health and Environmental Control	The South Carolina Council on Coastal Futures convenes respected community and business leaders to 1) evaluate priority coastal issues, 2) receive and consider input from stakeholders and the public, and 3) recommend actions to the South Carolina Department of Health and Environmental Control that would be required to address the key issues.	www.scdhec.net/ocrm/HTML/CCF.htm	planning, public involvement, council	SC
Green Development – Site Design Level	University of South Carolina	This project involves developing a parcel with alternative (green) building materials and solar power, and to implement water conservation measures. The facility may also include an educational center with overnight cabins, a nature center, and a small conference facility. The project has not moved forward due primarily to lack of funding.	http://nerrs.noaa.gov/NorthInlet/welcome.html	green, development, funding, university, solar, water conservation	SC
Vegetated Riparian Buffers and Buffer Ordinances	South Carolina Department of Health and Environmental Control	South Carolina Office of Ocean and Coastal Resources Planning Division staff reviewed and compiled current literature on vegetated buffers and produced two easy-to-read, informative booklets: one for both local government officials and citizens of South Carolina, entitled "Vegetated Riparian Buffers and Buffer Ordinances," and a second for homeowners, entitled "Backyard Buffers for the South Carolina Lowcountry."	www.scdhec.net/ocrm/HTML/plan.html#buffers	educational materials, buffers	SC

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Title	Agency	Description	Web site	Keywords	State
Southeast Coast and Ocean Margin Program (SEACOM)	South Carolina Department of Health and Environmental Control	The NOAA Coastal Services Center is leading an effort to enhance understanding of the significant natural resources in the South Atlantic Bight, a region extending from Cape Hatteras, North Carolina, to Cape Canaveral, Florida, out to the edge of the continental margin. The program is investigating significant natural resource areas, compiling this information into a spatial data framework, and working to inform and educate the public about the importance of discovery and management of these resources. The long-term goal is to provide an information foundation that allows managers to maintain economic vitality in the region while sustaining natural resources for future generations.	www.scdhec.net/ocrm/	economic study, sustainable development	South east
Maintaining Quality Standards at Coastal and Marine Managed Areas	Texas Coastal Management Division	The focus of this effort is a visitor-use management handbook for managers. Originally developed for the National Park Service, this redesigned handbook provides tools to plan for and manage visitor use and visitor-related impacts on coastal and marine-managed areas.	http://texascoastalprogram.fws.gov/	visitor use management, land use planning, National Park Service	TX
Targeting Growth and Related Pollution Issues	Virgin Islands Department of Planning and Natural Resources	The Virgin Islands Department of Planning and Natural Resources is researching smart growth initiatives, ideas, and practices to determine their usefulness in reducing nonpoint source pollution in the Virgin Islands.	www.viczmp.com	land use planning, nonpoint source pollution	VI
Draft Guide to Watershed Planning & Management	Washington State Coastal Program	This manual has been developed as an aid to citizens, local governments, Native Americans, and others interested in watershed planning under the Watershed Management Act. The manual presents the requirements of the Watershed Management Act, but also goes further by offering a variety of suggestions for navigating the planning process to achieve the objectives stated in the law. Except where clearly indicated in the text, the approaches offered in this manual are voluntary. Each planning unit may use elements of this manual, as they deem appropriate.	www.ecy.wa.gov/biblio/99106.html	law, manual, plan, planning, tribe, water, watershed, watershed planning	WA
Draft Shoreline Management Rules	Washington State Coastal Program	The Draft Shoreline Management Rules provide direction and guidance to more than 245 cities and counties that use the guidelines and the Shoreline Management Act to update and implement their shoreline master programs. These local "master programs" are the rules and plans that regulate development and use of shorelines along rivers and larger streams, along lakes over 20 acres, and along marine waterfronts.	www.ecy.wa.gov/programs/sea/SMA/guidelines/index.html	local planning tools, land use, regulations, waterfront	WA
Washington Digital Coastal Atlas	Washington State Coastal Program	Geographic Information System (GIS) tools are used to protect the land, air, and waters of Washington State. The agency has built and maintains the GIS applications, such as Washington Digital Coastal Atlas, to help staff and others understand the diverse natural and cultural environment. The system allows the public to access and analyze geospatial data for the state's coastal region, without the need for GIS software.	www.ecy.wa.gov/services/gis/apps/apps.htm	GIS, IMS, Internet, public outreach	WA
General Grants for Land Use Planning and Waterfront Redevelopment	Wisconsin's Department of Administration	More than \$50 million in grants have been awarded since 1985 for coastal improvements in Wisconsin coastal counties, including \$9 million of Coastal Zone Management Act funding to local governments to address land use planning and waterfront redevelopment, and more than \$5 million for land acquisition projects.	www.doa.state.wi.us	grant, land acquisition	WI